RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/524,919
Source: PCT
Date Processed by STIC: 2-26-05

ENTERED

PCT

RAW SEQUENCE LISTING DATE: 02/26/2005
PATENT APPLICATION: **US/10/524,919** TIME: 08:07:10

Input Set : **A:\US_A35045_SeqList.txt**
Output Set: **N:\CRF4\02262005\J524919.raw**

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      3 <110> APPLICANT: Giaccia, Amato J.
      4       Yun, Zhong
      6 <120> TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR REGULATING
      7       ADIPOGENESIS
      9 <130> FILE REFERENCE: A35045
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/524,919
C--> 11 <141> CURRENT FILING DATE: 2005-02-17
     11 <150> PRIOR APPLICATION NUMBER: PCT/US03/06360
     12 <151> PRIOR FILING DATE: 2003-02-28
     14 <150> PRIOR APPLICATION NUMBER: US 60/360,689
     15 <151> PRIOR FILING DATE: 2002-02-28
     17 <160> NUMBER OF SEQ ID NOS: 7
     19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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     26 <220> FEATURE:
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     29 <223> OTHER INFORMATION: BHLHB2 (DEC1)
     31 <221> NAME/KEY: variation
     32 <222> LOCATION: (27)...(27)
     33 <223> OTHER INFORMATION: C or T
W--> 35 <221> variation
     36 <222> LOCATION: (196)...(196)
     37 <223> OTHER INFORMATION: C or T
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W--> 40 <222> LOCATION: (197)...(145)
     41 <223> OTHER INFORMATION: BHLHB2
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W--> 47 <221> variation
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     57 <223> OTHER INFORMATION: A or G
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RAW SEQUENCE LISTING DATE: 02/26/2005
PATENT APPLICATION: **US/10/524,919** TIME: 08:07:10

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70 <309> DATABASE ENTRY DATE: 1999-03-19
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75 cctctccagg gcagtcctca tccagacgct ccgctagtgc agacaggagc gcgcagtggc 180
76 cccggctcgc cgcgccatgg agcggatccc cagcgcgcaa ccaccccccg cctgcctgcc 240
77 caaagcaccg ggactggagc acggagacct accagggatg taccctgccc acatgtacca 300
78 agtgtacaag tcaagacggg gaataaagcg gagcgaggac agcaaggaga cctacaaatt 360
79 gccgcaccgg ctcatcgaga aaaagagacg tgaccggatt aacgagtgca tcgcccagct 420
80 gaaggatctc ctacccgaac atctcaaact tacaactttg ggtcacttgg aaaaagcagt 480
81 ggttcttgaa cttaccttga agcatgtgaa agcactaaca aacctaattg atcagcagca 540
82 gcagaaaatc attgccctgc agagtggttt acaagctggt gagctgtcag ggagaaatgt 600
83 cgaaacaggt caagagatgt tctgctcagg tttccagaca tgtgcccggg aggtgcttca 660
84 gtatctggcc aagcacgaga acactcggga cctgaagtct tcgcagcttg tcacccacct 720
85 ccaccgggtg gtctcggagc tgctgcaggg tggtacctcc aggaagccat cagacccagc 780
86 tcccaaagtg atggacttca aggaaaaacc cagctctccg gccaaaggtt cggaaggtcc 840
87 tgggaaaaac tgcgtgccag tcatccagcg gactttcgct cactcgagtg gggagcagag 900
88 cggcagcgac acggacacag acagtggcta tggaggagaa tcggagaagg gcgacttgcg 960
89 cagtgagcag ccgtgcttca aaagtgacca cggacgcagg ttcacgatgg gagaaaggat 1020
90 cggcgcaatt aagcaagagt ccgaagaacc ccccacaaaa aagaaccgga tgcagctttc 1080
91 ggatgatgaa ggccatttca ctagcagtga cctgatcagc tccccgttcc tgggcccaca 1140
92 cccacaccag cctcctttct gcctgccctt ctacctgatc ccaccttcag cgactgccta 1200
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96 cttgctccaa gctctgaagc caatcccccc tttaaactta gaaaccaaag actaaactct 1440
97 ctaggggatc ctgctgcttt gctttccttc ctcgctactt cctaaaaagc aacaaaaaag 1500
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103 ggtctgtgag tcactcttca gtttgggagc tgggtctgtg gctttgatca gaaggtactt 1860
104 tcaaaagagg gctttccagg gctcagctcc caaccagctg ttaggacccc acccttttgc 1920
105 ctttattgtc gacgtgactc accagacgtc ggggagagag agcagtcaga ccgagctttc 1980
106 tgctaacatg gggaggtagc aggcactggc atagcacggt agtggtttgg ggaggtttcc 2040
107 gcaggtctgc tccccacccc tgcctcggaa gaataaagag aatgtagttc cctactcagg 2100
108 ctttcgtagt gattagctta ctaaggaact gaaaatgggc cccttgtaca agctgagctg 2160
109 ccccggaggg agggaggagt tccctgggct tctggcacct gtttctaggc ctaaccatta 2220
110 gtacttactg tgcagggaac caaaccaagg tctgagaaat gcggacaccc cgagcgagca 2280
111 ccccaaagtg cacaaagctg agtaaaaagc tgcccccttc aaacagaact agactcagtt 2340
112 ttcaattcca tcctaaaact ccttttaacc aagcttagct tctcaaaggc ctaaccaagc 2400

RAW SEQUENCE LISTING DATE: 02/26/2005
PATENT APPLICATION: **US/10/524,919** TIME: 08:07:10

Input Set : **A:\US_A35045_SeqList.txt**
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cttgttttcc cgatgtgtcc agccagctcc gcagcagctt ttcaagatgc actatgcctg 2580
attgctgatc gtgttttaac ttttttcttt cctgttttta ttttggtatt aagtcgttgc 2640
ctttatttgt aaagctgtta taaatatata ttatataaat atattaaaaa ggaaaatgtt 2700
tcagatgttt atttgtataa ttacttgatt cacacagtga gaaaaaatga atgtattcct 2760
gtttttgaag agaagaataa ttttttttttc tctagggaga ggtacagtgt ttatattttg 2820
gagccttcct gaaggtgtaa aattgtaaat atttttatct atgagtaaat gttaagtagt 2880
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            20                  25                  30
Met Tyr Gln Val Tyr Lys Ser Arg Arg Gly Ile Lys Arg Ser Glu Asp
        35                  40                  45
Ser Lys Glu Thr Tyr Lys Leu Pro His Arg Leu Ile Glu Lys Lys Arg
    50                  55                  60
Arg Asp Arg Ile Asn Glu Cys Ile Ala Gln Leu Lys Asp Leu Leu Pro
65                  70                  75                  80
Glu His Leu Lys Leu Thr Thr Leu Gly His Leu Glu Lys Ala Val Val
                85                  90                  95
Leu Glu Leu Thr Leu Lys His Val Lys Ala Leu Thr Asn Leu Ile Asp
            100                 105                 110
Gln Gln Gln Gln Lys Ile Ile Ala Leu Gln Ser Gly Leu Gln Ala Gly
        115                 120                 125
Glu Leu Ser Gly Arg Asn Val Glu Thr Gly Gln Glu Met Phe Cys Ser
    130                 135                 140
Gly Phe Gln Thr Cys Ala Arg Glu Val Leu Gln Tyr Leu Ala Lys His
145                 150                 155                 160
Glu Asn Thr Arg Asp Leu Lys Ser Ser Gln Leu Val Thr His Leu His
                165                 170                 175
Arg Val Val Ser Glu Leu Leu Gln Gly Gly Thr Ser Arg Lys Pro Ser
            180                 185                 190
Asp Pro Ala Pro Lys Val Met Asp Phe Lys Glu Lys Pro Ser Ser Pro
        195                 200                 205
Ala Lys Gly Ser Glu Gly Pro Gly Lys Asn Cys Val Pro Val Ile Gln
    210                 215                 220
Arg Thr Phe Ala His Ser Ser Gly Glu Gln Ser Gly Ser Asp Thr Asp
225                 230                 235                 240
Thr Asp Ser Gly Tyr Gly Gly Glu Ser Glu Lys Gly Asp Leu Arg Ser
                245                 250                 255
Glu Gln Pro Cys Phe Lys Ser Asp His Gly Arg Arg Phe Thr Met Gly
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RAW SEQUENCE LISTING DATE: 02/26/2005
PATENT APPLICATION: US/10/524,919 TIME: 08:07:10

Input Set : A:\US_A35045_SeqList.txt
Output Set: N:\CRF4\02262005\J524919.raw

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166 Glu Arg Ile Gly Ala Ile Lys Gln Glu Ser Glu Glu Pro Pro Thr Lys
167         275                 280                 285
168 Lys Asn Arg Met Gln Leu Ser Asp Asp Glu Gly His Phe Thr Ser Ser
169     290                 295                 300
170 Asp Leu Ile Ser Ser Pro Phe Leu Gly Pro His Pro His Gln Pro Pro
171 305                 310                 315                 320
172 Phe Cys Leu Pro Phe Tyr Leu Ile Pro Pro Ser Ala Thr Ala Tyr Leu
173                 325                 330                 335
174 Pro Met Leu Glu Lys Cys Trp Tyr Pro Thr Ser Val Pro Val Leu Tyr
175             340                 345                 350
176 Pro Gly Leu Asn Ala Ser Ala Ala Ala Leu Ser Ser Phe Met Asn Pro
177         355                 360                 365
178 Asp Lys Ile Ser Ala Pro Leu Leu Met Pro Gln Arg Leu Pro Ser Pro
179     370                 375                 380
180 Leu Pro Ala His Pro Ser Val Asp Ser Ser Val Leu Leu Gln Ala Leu
181 385                 390                 395                 400
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183                 405                 410
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187 <211> LENGTH: 2909
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189 <213> ORGANISM: Mus musculus
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192 <221> NAME/KEY: gene
193 <222> LOCATION: (1)...(2909)
194 <223> OTHER INFORMATION: BHLHB2 (Stra13;CR8)
196 <221> NAME/KEY: CDS
197 <222> LOCATION: (217)...(1452)
198 <223> OTHER INFORMATION: BHLHB2 (eip1; E47 interaction protein)
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201 <309> DATABASE ENTRY DATE: 2000-01-25
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206 ctcttgagac cctcggatcc tcccttccag ggcagccctt tctcagactc tactaagtgc 180
207 agacaggagc gcacagtggc ccctgctcgc cgcatcatgg aacggatccc cagcgcgcaa 240
208 ccacctccta cctgcctgcc caaagctcca gggctggagc acggagacct gtcagggatg 300
209 gattttgccc acatgtacca agtgtacaag tccaggcggg gaataaaacg gagcgaagac 360
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211 aacgagtgca ttgcccagct gaaggatctc ctacccgaac atctcaaact tactactttg 480
212 ggtcacttgg aaaaagcagt ggttctggag cttacgttga agcacgtgaa agcattgaca 540
213 aatctaattg atcagcagca gcagaaaatc attgccctgc agagcggttt acaagctggt 600
214 gatttgtcgg gaagaaatct cgaggcaggg caagaaatgt tctgctcagg tttccagact 660
215 tgtgcccgtg aggtacttca gtacctggcg aagcatgaga acactcggga cctgaaatct 720
216 tcccagctcg tcactcatct ccatcgtgtg gtctcggagc tgctgcaggg tggtgcttcc 780
217 aggaaaccat tggactcggc tcccaaagcc gtggacttga aagagaagcc cagcttccta 840
218 gccaagggat cagaaggccc agggaaaaac tgtgtgccag tcatccagcg gacttttgct 900
219 ccctcgggtg gggagcagag cggcagtgac acggacacag acagtggcta tggaggtgaa 960
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PATENT APPLICATION: US/10/524,919 TIME: 08:07:10

Input Set : A:\US_A35045_SeqList.txt
Output Set: N:\CRF4\02262005\J524919.raw

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222 aagagccgaa tgcagctctc agaagaggaa ggccacttcg cgggcagtga tctgatgggt 1140
223 tccccatttc ttgggccaca cccacatcag cctccttttt gccttccctt ctatctcatc 1200
224 ccaccatcgg ccactgccta cctgcctatg ctggagaaat gctggtaccc cacctctgtg 1260
225 ccagtgttat acccaggcct caacacctca gctgcagccc tctccagctt catgaaccca 1320
226 gacaagatac cgactccctt gcttctgccc cagagactcc cttctccttt ggcacattcg 1380
227 tcccttgact cttcggcctt gctccaggct ttgaagcaga tccctccttt aaacttagaa 1440
228 accaaagact aaactctgga gggatctcct gctgccttgc tttctttcct ccctaattcc 1500
229 aaaaaccacg aaggtttccc tgagtgcaga gagatcagcc caccctgcag acccacagag 1560
230 aagattcaga gtgtgtgtga gagtgagtga gtgtgcgtgc gtgcgtgctt gtatgtatgt 1620
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232 acatcagatg acagactgga ggactgtagc acatctctgg gcgtttccct acccagagaa 1740
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234 tgtgagtcac tctccagttt gggacatggg tctgtctgtg gctttgagaa aaggtacttt 1860
235 caaaagaggg ctttccagag cacagctcac agccagctgt taggacccca cccttctccc 1920
236 tttattgtgg aggtgactca cagcagactg acagtggtca ggctgagctt tctgctaagg 1980
237 tggtgaggtc gccaacactg gcatgtctcg gtagtggttt gggcaaattt ctgcaggtcc 2040
238 cttcccccca accccgtctc tgatgaataa agaccatgag tggagttcct taactcaggc 2100
239 ttttgtgagt agtttactaa ggaactgaaa atggtcccct ttgtccaagc tgagctgcta 2160
240 gggaatcaag gtgaactgga cccgtcctca ggcctctggc acctgtttct agctctcact 2220
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242 aagtacacag agctaagtaa tcaattgcta cacttattgc acagctagac acggatttca 2340
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247 tcccattttt atttgggcat aaaagttgtt gcctttattt gtaaagctgt tataaatata 2640
248 tattatataa atatatgaca aaggaaaatg tttcagatgt ctatttgtat aattacttga 2700
249 tctacacagt gaggaaaaaa atgaatgtat ttctgttttt gaagagaata attttttttct 2760
250 ctagggagag gcgaggttac agtgtttata ttttggaacc ttcctgaagg tgtgaaattg 2820
251 taaatatttt tatctaagta aatgttaagc agttgtttta aaaatactta ataaaataag 2880
252 ctttttttcct gtggaagcga cagtatcgg                                  2909
254 <210> SEQ ID NO: 4
255 <211> LENGTH: 411
256 <212> TYPE: PRT
257 <213> ORGANISM: Mus musculus
259 <308> DATABASE ACCESSION NO: NP_035628.1
260 <309> DATABASE ENTRY DATE: 2000-01-25
262 <400> SEQUENCE: 4
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266             20                  25                  30
267 Met Tyr Gln Val Tyr Lys Ser Arg Arg Gly Ile Lys Arg Ser Glu Asp
268         35                  40                  45
269 Ser Lys Glu Thr Tyr Lys Leu Pro His Arg Leu Ile Glu Lys Lys Arg
270     50                  55                  60
271 Arg Asp Arg Ile Asn Glu Cys Ile Ala Gln Leu Lys Asp Leu Leu Pro
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VERIFICATION SUMMARY DATE: 02/26/2005
PATENT APPLICATION: **US/10/524,919** TIME: 08:07:11

Input Set : **A:\US_A35045_SeqList.txt**
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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:35 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:39 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:40 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:1, CDS LOCATION: (197)...
(145)
L:43 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
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L:203 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3